IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF OKLAHOMA

W. A. DREW EDMONDSON, in his)
capacity as ATTORNEY GENERAL)
OF THE STATE OF OKLAHOMA and)
OKLAHOMA SECRETARY OF THE)
ENVIRONMENT C. MILES TOLBERT,)
in his capacity as the)
TRUSTEE FOR NATURAL RESOURCES	5)
FOR THE STATE OF OKLAHOMA,)
Plaintiff,)))
vs.)4:05-CV-00329-TCK-SAC
)
TYSON FOODS, INC., et al,)
)
Defendants.)

VOLUME II OF VIDEOTAPED

DEPOSITION OF EUGENE WELCH, PhD, produced as a witness on behalf of the Defendants in the above styled and numbered cause, taken on the 15th day of August, 2008, in the City of Tulsa, County of Tulsa, State of Oklahoma, before me, Lisa A. Steinmeyer, a Certified Shorthand Reporter, duly certified under and by virtue of the laws of the State of Oklahoma.

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EXHIBIT

5

1	Q And what would that be?	1	Q I'm asking, though, from 2002 up to the
2	A Oh, I don't know. I have done additional	2	present, doesn't it appear that smallmouth bass have
3	work. I've looked at other literature. You've got	3	declined at Broken Bow Reservoir?
4	the stuff here that I've worked at. Some of that is	4	A It may appear that way, but I wouldn't
5	not in the report. So I can't say that I'm not 01:23PM	5	interpret the data that way. 01:38PM
6	going to stop doing this. We're still monitoring	6	Q If Broken Bow is a healthy reservoir how can
7	the reservoir. We looked at data from this year,	7	the apparent decline of smallmouth bass be
8	and it looks pretty interesting, and it's going to	8	explained?
9	be continuous sampling through the years, so we're	9	MR. PAGE: Object to the form.
10	going to look at that and, you know, as other data 01:23PM	10	A You'd have to I'd have to rely on the 01:38PM
11	may come along, I'm not going to turn my back on it	11	average value over these years and not the value for
12	because I'm interested in the problem and trying to	12	any one year. I mean there's a lot of variability
13	understand what's going on.	13	among years, and it can be for a lot of the things
14	Q You indicated that you've looked at data or	14	than just well, it could be a lot of factors.
15	information that's interesting. What do you mean by 01:23PM	l	Q Will you agree that since 2002 it's declined? 01:38P
16	the word interesting?	16	MR. PAGE: Object to the form.
17	A Interesting, well, that's just what	17	A The catch values in 2006 were lower than 2004
18	limnologists do, you know. They have fun looking at	18	and lower than 2002, but when I looked at these
19	data. I can't, you know it's probably not	19	data, there's no way I was going to consider that
20	understandable to most people. 01:24PM	20	because I said in the report that the data don't 01:39PM
21	MR. BASSETT: Let's go ahead and break.	21	represent trends and this was the advice of Paul
22	VIDEOGRAPHER: We are now off the Record.	22	Balkenbush as well, that you don't represent trends.
23	The time is 1:24.	23	So I asked this question to begin with, is there a
24	(Following a short recess at 1:24 p.m.,	24	trend, and so I discounted it and only treated the
25	proceedings continued on the Record at 1:36 p.m.) 01:36PM	25	two populations separately. 01:39PM
	348		350
	240	ļ	330
1	VIDEOGRAPHER: We are now on the Record.	1	Q Did you have anything on fish populations at
2	The time is 1:36.	2	Broken Bow other than catch data?
3	Q Dr. Welch	3	A No, not that I can recall.
4	A Yes, sir.	4	Q Let me get you to look for a moment at Figure
5	Q would you open your report back to Figure 01:36PM	5	37, which is Exhibit 29. This is on walleye, catch 01:39PM
6	31 for a moment. It's catch rates for smallmouth	6	rates for walleye.
7	bass in Broken Bow and Tenkiller.	7	A Yes.
8	A I'll look at mine, okay, because it's colored.	8	Q All right, and since 1999 up to the present,
9	Q Okay. That's fine.	9	would you agree that the population of walleye
10	A Okay. 01:36PM	10	appears to have declined at Broken Bow Reservoir or 01:40PM
11	Q Are you there?	11	that it's trending down since then?
12	A Yep.	12	MR. PAGE: Object to the form.
13	Q Okay. Looking at the most recent years	13	A Again, same thing. You look at this
14	since well, from 2002 up to the present this	14	distribution of walleye, and I would call that
15	is Exhibit 28, by the way. It's already in 01:37PM	15	fairly consistent across that span of time, these 01:40PM
16	evidence, and your Figure 31. Does it appear to	16	high values and low values notwithstanding.
17	you, Dr. Welch, that the population of smallmouth	17	Q Did you have any other data other than catch
18	bass appears to have declined in Broken Bow	18	rates for walleye
19	Reservoir since 2002?	19	A No.
20	A No. 01:37PM	20	Q at Broken Bow? 01:40PM
21	Q Isn't the trending downward looking at this	21	A No.
22	graph?	22	Q I'm done with that one, Dr. Welch. Just got a
23	A Yeah, but, you know, there's a low value here	23	few more questions. This has to do with what we
24	for 2006. You can go back and see low values over	24	were talking about right before we took the last
25	here. You can trail it off the other way. 01:37PM	25	break. What has led you, Dr. Welch, to believe that 01:40PM
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1	you should continue to do analysis and continue to	1	A I can't predict.
2	review additional data in this case?	2	Q Are you planning to attempt to alter or modify
3	A Well, you know, I told you limnology is	3	your report as you review this additional
4	interesting, and you saw I mean if you look at	4	information?
5	the stuff that you copied, we've got some 2008 data 01:41PM	1 5	A It remains to be seen whether it's necessary 01:43PM
6	in here so far, and I said if we continue sampling,	6	or not.
7	what these data show is contrary I think it's	7	Q Are you planning on doing that if it's
8	going to work out contrary to the past three years	8	necessary?
9	when flows have been low and residence time high. I	9	MR. PAGE: Object to form.
10	explained that that, you know, represented some of 01:41PM	1 10	A If it's necessary and after consultation with 01:43PM
11	the reasoning for the low values in 2005 to 2007,	11	Dennis about our report together, then I could
12	but these values that we're seeing in 2008 so far	12	submit a supplemental. It's my understanding that
13	are much higher than the ones in 2005 or 2007. So	13	supplementals can be submitted if it's approved.
14	it looks like this concept that we presented in the	14	Q Who do you have that understanding from?
15	regression lines of residence time versus total 01:42PM	15	A David Page. 01:44PM
16	phosphorus concentration in the reservoir is being	16	Q What are the what data have you reviewed
17	supported by the 2008 data. So it behooves us to	17	since May 28th of this year?
18	continue to look at it.	18	A Only literature and
19	Q In doing this additional work, are you	19	Q What literature?
20	charging for your time? 01:42PM	20	A I read well, literature that I cited in the 01:44PM
21	A Sure.	21	report. I went back and read it, and I looked in
22	Q Who authorized you to charge for that time?	22	literature cited and looked up some of those other
23	A I didn't ask for any authorization. I just	23	papers. You've got some of that right in here. I
24	assume it's there.	24	gave it to you.
25	Q You just assumed that? 01:42PM	25	Q Anything that you have reviewed since May 28th 01:44PM
1	352		354
1	A Yeah. I mean	1	other than that literature?
2	Q Do you understand, Dr. Welch, that the court	2	A No, I don't think so. I think I got it all
3	set a deadline of May 28th of this year for you to	3	there but I can't be sure.
4	provide us with your opinions in this case?	4	Q Have you reviewed any data results since May
5	MR. PAGE: Object to the form. 01:42PM	5	28th of this year? 01:45PM
6	A Actually, no.	6	A Well, I read reports.
7	Q Nobody has ever told you that?	7	Q From who?
8	A Well, I knew there was a deadline. I didn't	8	A Engel, Fisher, Stevenson. I'm in the process
9	know it stopped us working. Nobody's ever told me	9	of reading Stevenson's. So that's an ongoing.
10	to stop working. 01:42PM	10	MR. PAGE: Do you mean sampling results 01:45PM
11	Q Are you operating under the assumption that	11	when you said data results?
12	you can modify your opinions from this point forward	12	MR. BASSETT: Yeah.
13	and offer new opinions or modified opinions?	13	Q Have you reviewed any 2008 sampling reports?
14	MR. PAGE: Object to the form.	14	A Yeah. What's in here, I just saw it two days
15	A Am I under the assumption? Can you be more 01:43P		ago. 01:45PM
16	specific?	16	Q When you say it's in here, are you referring
17	Q I think that's pretty specific. I can't.	17	to the files you brought with you to the deposition?
18	MR. PAGE: Same objection.	18	A The ones you copied.
19	A It depends on, you know, what kind of data	19	Q Okay. So we have copies of those now?
20	and, you know, if I discuss it with the people who 01:43PM	i i	A You do. 01:45PM
21	are running the show. I mean	21	Q Copies of that data?
22	Q And who would that be?	22	A Yes.
23	A That would be David Page.	23	Q That 2008 data?
24	Q When do you plan to be finished with your work	24	A Yes.
25	in this case? 01:43PM	25	Q Have you produced that data that you just 01:45PM
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